

EDUCATION

Sharif University of Technology

B.S. in Electrical Engineering, GPA: 19.42/20.00

– Ranked 4th among 164 EE students

Tehran, Iran

2019–2023

Shahid Datgheib Highschool

Diploma in Mathematics and Physics, GPA: 19.50/20.00

Shiraz, Iran

2016–2019

SKILLS

- **Programming Languages:** Python, C, C++, Java, MATLAB, Assembly, Pytorch, Linux
- **Electrical Engineering Software:** PSpice, COMSOL, Proteus, Xilinx ISE
- **Interpersonal Skills:** Teamwork, Mentoring, Teaching, Self-Taught

LANGUAGES

- **Persian:** Native
- **English:** Fluent
TOEFL iBT Score: 101 **Reading:** 22
Listening: 29 **Speaking:** 25 **Writing:** 25
- **Russian:** Familiar

RESEARCH INTEREST

- **Statistical Learning Theory**
- **Optimization**
- **High Dimensional Statistics**
- **Information Theory**
- **Queueing Network**

SCHOLARSHIPS AND AWARDS

- Awarded Gold Medal of National Olympiad on Astrophysics and Astronomy 2018
- Awarded Silver Medal of International Olympiad on Astrophysics and Astronomy 2019

TEACHING ASSISTANT EXPERIENCE

- **Teaching Assistant** at Sharif University of Technology Spring 2023
Convex Optimization 1
– Head TA
- **Teaching Assistant** at Sharif University of Technology Fall 2022
Introduction to Machine Learning
– Designing the Final Project
- **Teaching Assistant** at Sharif University of Technology Fall 2022
Probability and Statistics
– Designing the Final Project

SELECTED COURSES

Graph Signal Processing

In Progress, Dr. Amini

Big Data

In Progress, Dr. Gholampour

High Dimensional Statistics	19.8/20, Dr. Yasayee
Information Thoery, Statistics and Learning	19.4/20, Dr. Yasayee
Introduction to Machine Learning	20/20, Dr. Amini
Convex Optimization 1	20/20, Dr. Yasayee
Mathematical Methods in Engineering (Linear Algebra)	20/20, Dr. Amini
Object Oriented Programming	20/20, Dr. Hashemi

SELECTED PROJECTS

Analyzing and Balancing Data for Persian GPT

Dr. Ghodsi

In Progress ...

- Preparing dataset for pretraining the GPT model
- Designing RLHF interface for training
- Analyzing statistics of the dataset

Studying and Analysing Transport Inequalities and their Application

High Dimensional Statistics, Dr. Yassaee

Spring 2023

- Studying the optimal transport problem
- Reviewing applications of optimal transport in concentration inequalities

Studying Algorithmic Game Theory and its Applications

Information Theory and Statistics for Learning, Dr. Yassaee

Fall 2022

Image Denoising Using EM Algorithm and Autoencoders

Introduction to Machine Learning, Dr. Amini

Spring 2023

- Using EM algorithm to denoise sample images
- Using autoencoders for different image processing applications such as image denoising

Developoing Recommender Systems Using Machine Learning Models

Machine Learning, Dr. Amini

Fall 2022